

CLAIMS

What is claimed is:

- 5 1. A method for processing a woven/non-woven fabric of natural fiber, said method comprising:
 creating a web of fibers having a predetermined weight;
 spraying the web of fibers with a liquid at a predetermined high pressure; and
 removing moisture from the sprayed web of fibers.
- 10 2. The method according to claim 1, further comprising:
 prior to said creating, cleaning raw fibers; and
 combing a mass of raw fibers, and
 after said removing moisture, cutting the web of fibers to a predetermined size and
 pattern.
- 15 3. The method according to claim 2, wherein said predetermined size and pattern comprises one
 of a disposable personal hygiene product, a napkin, a cleaning cloth, medical gauze, sheets for
 medical and paramedical use, a disposable towel, a handkerchief, a make-up napkin, a glass/lens
 cleaner, a floor wipe, a kitchen drying cloth, a non-allergenic web for sanitary towels, disposable
20 diapers, a car cloth, and a metal cleaning cloth.
4. The method according to claim 1, wherein said fibers comprise pure cotton.
5. The method according to claim 2, wherein said combing the mass of raw fibers comprises
25 removing fibers less than about 10 mm in length.

6. The method according to claim 2, wherein said cleaning the raw fibers comprises treating the raw fibers with hydrogen peroxide.

7. The method according to claim 2, wherein said combing the mass of raw fibers comprises carding the raw fibers with carding cylinders.

8. The method according to claim 1, wherein said creating a web of fibers comprises applying the fibers on a tape surface.

9. The method according to claim 1, wherein said spraying the web of fibers with the liquid comprises spraying the web of fibers with pure water.

10. The method according to claim 1, wherein said predetermined high pressure comprises a pressure in a range between about 30 bar to about 80 bar.

11. The method according to claim 1, wherein said removing moisture comprises using a drying oven.

12. The method according to claim 1, wherein said removing moisture comprises subjecting the sprayed web to a temperature of approximately 160° C for a predetermined period of time.

13. The method according to claim 1, wherein the web of fibers comprises fibers in a range between about 8 mm to about 18 mm.

14. A woven/non-woven fabric, comprising:

a plurality of waste threads of a natural fiber forming a web of a predetermined weight,
wherein a consistency and rigidity of the web are provided by a liquid spray at high
pressure and subsequent removal of moisture using high temperature.

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15. The woven/non-woven fabric as claimed in claim 14, wherein said plurality of waste threads
comprises fibers in a range of length between about 8 mm to about 18 mm, and

wherein a weight of said web of waste threads is not less than about 35 grams per square
meter.

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16. The woven/non-woven fabric as claimed in claim 14, wherein said plurality of waste threads
comprise a by-product of a spinning process.

17. The woven/non-woven fabric as claimed in claim 14, wherein said plurality of waste threads
comprise pure cotton.

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18. An apparatus for producing a natural woven/non-woven fabric, said apparatus comprising:

a web-maker for creating a web of fibers;

a sprayer attached to said web-maker for spraying the web of fibers with liquid at high

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pressure; and

a moisture reducing device for receiving and reducing a moisture content of a sprayed
web of fibers to produce the woven/non-woven fabric.

19. The apparatus of claim 18, further comprising:

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a cleaning unit for degreasing the fibers and outputting them to said web-maker; and

a comber located between said cleaning unit and said web-maker,

wherein said cleaning unit degreases the fibers using any of soaps, hydrogen peroxide and water, and

5 wherein said comber includes carding cylinders for isolating fibers with a length in a range between about 8 mm to about 18 mm.

20. The apparatus of claim 18, further comprising:

a material receiving mechanism attached to said moisture removal mechanism for holding the woven/non-woven fabric; and

10 a cutter for patterning the woven/non-woven fabric.